

BORAK, Emil, dr.; OLMER, Jiri

Automation of information processing in food industries. Prum
potravin 13 no.12:620-623 D '62.

1. Vyzkumny ustav ekonomiky potravinarskeho prumyslu, Praha.

ODER, Jiri, Ing.

Apparatus for calibration of vibration measurement devices.
Stav cas 11 no.8:486-499 '63.

1. Ustav teoreticke a aplikovane mechaniky, Ceskoslovenska
akademie ved, Praha.

BORAK, Emil, dr.; OLMER, Jiri

Principles of programming by using automatic computers. Prum
potravin 14, no.3:122-127 Mr '63.

1. Vzykumny ustav ekonomiky potravinarskeho prumyslu, Praha.

OLMER, Jiri

Introduction of automatic calculation in the confectionery industry. Listy cukrovar 79 no.9:232-235 S'63.

1. Vyzkumny ustav ekonomiky potravinarskeho prumyslu.

OLMER, Jiri

Preparation of input information for computers. From
potravni 15 no.12:607-611 D '64.

1. Research Institute of Food Industry Economics, Prague.

OL'MEZOV, G., inzhener; TURCHIKHIN, E., inzhener.

"Asphalt concrete road surfaces." L.B. Gezentsvei. Reviewed
by G. Ol'mezov, E. Turchikhin. Zhil.-kom.khoz. 5 no.8:28 '55.
(MLRA 9:3)

(Roads, Concrete) (Gezentsvey, L.B.)

31720

S/035/62/000/006/028/064
A001/A101

AUTHORS: Hřebík, F., Kvíčala, J., Křivský, L., Olmr, J.

TITLE: Observations of flares at the Ondřejov Observatory in the year 1960

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 59-60
abstract 6A446 ("Byul. astron. in-tov Chekhoslovakii", 1961, v. 12,
no. 5, 169-184, English; Russian summary)

TEXT: This is the regular report on observations of flares at Ondřejov
(Czechoslovakia). Data are presented on 309 flares and related bursts of solar
radio emission at frequencies 808, 536 and 231 Mc, as well as on atmospherics
at a frequency of 27 kc. Figures are given which show the curves of time
variations of H α line width. There are 18 references. /c

I. Zh.

[Abstracter's note: Complete translation]

Card 1/1

HREBIK, F.; KVICALA, J.; KRIVSKY, L.; OLMR, J.

Observations of flares at the Ondrejov Observatory in the year 1962. Biul astr Cz 14 no.6:245-250 '63.

1. Astronomical Institute of the Czechoslovak Academy of Sciences, Ondrejov.

TLAMICHA, A.; KREIVSKY, L.; OLMR, J. —

Classification of solar radio storms in the meter range and their frequency 1959-1961. Biul astr Cz 15 no.2:49-52 '64.

1. Astronomical Institute, Czechoslovak Academy of Sciences, Ondrejov.

TLAMICHA, A.; OLMR, J.

Catalog of 231 Mc/s solar radio noise storms (Ordrejov
1959-1961). Biul astr Cz 15 no. 4:133-135 '64.

1. Astronomical Institute, Czechoslovak Academy of
Sciences, Ordrejov.

OL'NEV, A., strelok-sportsmen pervogo razryada (g. Stavropol')

A new training revolver. Voen.znan. 34 no.12:29 D '58.
(MIRA 12:2)

(Revolvers)

(Shooting)

OL'NEV, A., inzh.

Protection of the work area at the presses. Okhr. truda i sots.
strakh. 4 no.3:40 Mr '61. (MIRA 14:3)
(Power presses—Safety appliances)

OL'NITSKIY, N.N.; ZAGUBYBAT'KO, M.M.

Adopting the production of fluxed sintered pellets at
the pelletizing plant of the Krivoy Rog Central Mining
and Ore Dressing Combine. Met. i gornorud. prom. no.6:61
N-D '65. (MIRA 18:12)

OL'NITSKIY, S., inzh.

Sure method for dust control. Mast.ogl. 9 no.7:15 J1 '60.
(Mine dusts) (MIRA 13:7)

L 24556-66 EWT(1)/EWA(h)

ACC NR: AP6006336

SOURCE CODE: UR/0413/66/000/002/0058/0058

AUTHORS: Bogoyavlenskiy, N. I.; Grinshteyn, V. I.; Ol'nov, V. M.

34
B

ORG: none

TITLE: Frequency difference relay. Class 21, No. 177987 [announced by Chuvash
Electrical Engineering Scientific Research Institute (Chuvashskiy
elektrotekhnicheskiy nauchno-issledovatel'skiy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 58

TOPIC TAGS: electronic circuit, sensitivity increase, electric relay

ABSTRACT: This Author Certificate presents a frequency difference relay. The relay contains a phase detector, silicon stabilitrons for protecting the input circuits, an integrating component, a storage trigger, and an operating element (see Fig. 1). The design increases the sensitivity of the relay to the magnitude of the residual voltage of the generator. The generator is synchronized with the line supply. Germanium diodes are connected to the parallel protected silicon stabilitrons.

Card 1/2

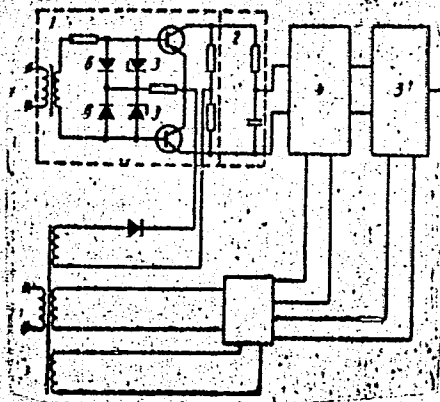
UDC: 621.318.57

2

L 24556-66

AGC NR: AP6006336

Fig. 1. 1 - phase detector; 2 - integrating component; 3 - silicon stabilitrons; 4 - storage trigger; 5 - operating element; 6 - germanium diodes.



Orig. art. has: 1 figure.

SUB CODE: 09/ SUBM DATE: 14Dec64

Card 2/2 P.B

L 45832-66 EWT(1)

ACC NR: AP6030580

SOURCE CODE: UR/0413/66/000/016/0062/0062

INVENTOR: Grinshteyn, V. I. ; Nudel'man, V. N. ; Ol'nov, V. M.

19
B

ORG: none

TITLE: Contactless ²⁵overload relay, Class 21, No. 184957 [announced by Chuvash Scientific Research Institute of Electrical Engineering (Chuvashskiy elektrotekhnicheskiy nauchno-issledovatel'skiy institut)]

SOURCE: Izobretaniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 62

TOPIC TAGS: contactless relay, overload, RC circuit, transistorized balanced amplifier

ABSTRACT: The proposed contactless overload relay utilizes semiconductors and contains an input relay unit, R-C circuits with an adjustable delay, and an output unit using electromagnetic slave mechanisms. To divide the controlled heteropolar lines galvanically and thus insure relay sensitivity to the overloads of both polarities, the relay contains two transistorized balanced amplifiers

Card 1/2

UDC: 621.316.925.43:621.315.592

OL'NYANSKAYA R.P.

BC

A-A

Action of the brain cortex on respiration.
 R. F. OZNYANSKAYA (J. Physiol. U.S.S.R., 1953, 15,
 314-329).—Mental stimuli and irritants acting on
 persons doing work cause changes in the rate of
 respiration. A. L.

A 18-31A METALLURGICAL LITERATURE CLASSIFICATION

18000 17000 16000 15000 14000 13000 12000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 000

18000 17000 16000 15000 14000 13000 12000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 000

18000 17000 16000 15000 14000 13000 12000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 000

18000 17000 16000 15000 14000 13000 12000 11000 10000 9000 8000 7000 6000 5000 4000 3000 2000 1000 000

CA

11F

The influence of the cerebral cortex upon the respiratory exchange. II. R. P. Ofnyskaya. *Azha. 361. 362.* (U. S. S. R.) 34, 29-75 (in German 75-7) (1934).—Previously (*Physiol. J.*, (U. S. S. R.) 11, No. 4 (1932)) it was established that with isolated action of a stimulator, previously related to performance of phys. work, the respiratory exchange (R. E.) alters in the same direction as with work alone. On the basis of further expts. on human subjects O. concludes that all stimuli, previously related to work, when applied alone produce an increased rate in all tissue metabolic processes, as measured by the rate of the R. E. This demonstrates the influence of the nervous system upon metabolism. The conditioned reflex mechanism of this process demonstrates that the higher coordination centers regulating metabolism are located in the cortex of the cerebral hemispheres. III. *Ibid.* 79-94.—The

expts. were performed on individuals with blocked conditioned R. E. reflexes. Such inhibitions can be released by means of administration of caffeine or alc. which render the reflexes operative for a long time without further use of the drugs. The caffeine method can be used for the differentiation between a blocked conditioned reflex and the absence of the reflex. Expts. on groups of working men in factories as well as in lab. expts. further confirmed the above theory that the stimulating signals assoc. with work are conditional reflex stimulators and cause an increase in metabolism, as would be produced by work itself. The increased R. E. observed in workers for prolonged periods (5-8 hrs.) before the actual beginning of work is ascribed to a conditioned excitement or sustained stimulation commonly present in individuals. The role of these factors in the physiology of work is emphasized.
W. A. Perlweir

358-313 METALLURGICAL LITERATURE CLASSIFICATION

330M 179.8210M

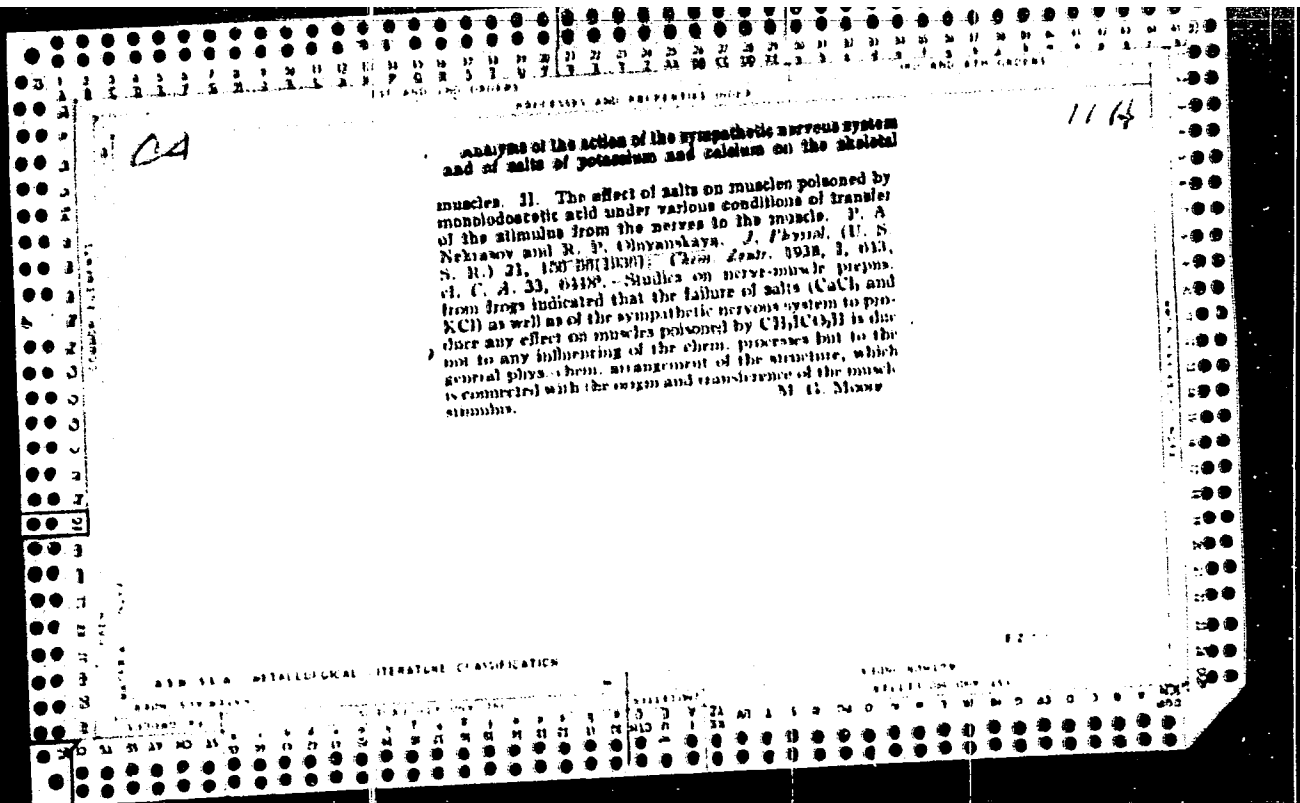
330000 2

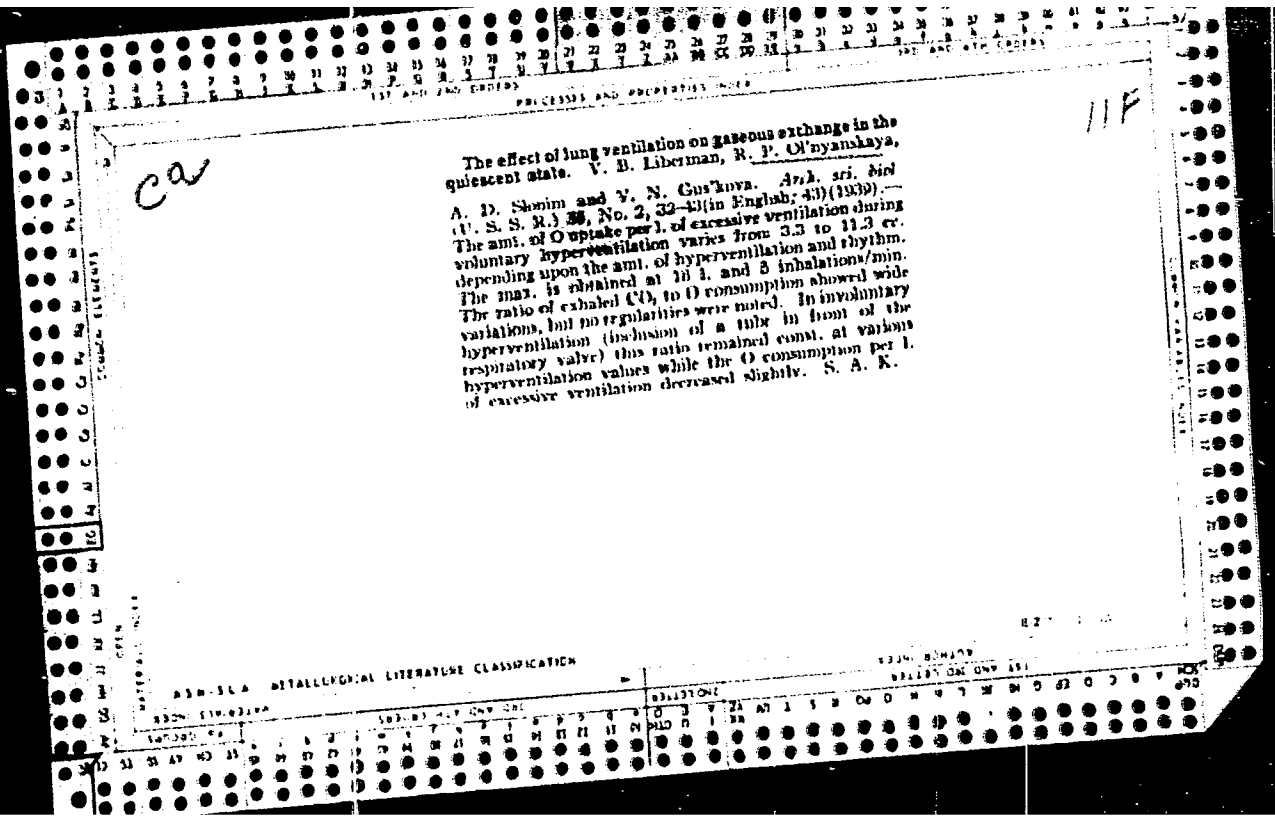
330010 179.8210M

330020 179.8210M

330030 179.8210M

111 AND NO LETTERS





OL'NYANSKAYA, R.P.; SOBOL', Ye.M.

Respiration and gas exchange in sheep at different mountain
altitudes. Trudy Biol. inst. Kir FAN SSSR no.1:183-191 '47.
(Sheep) (Respiration) (MIRA 8:10)

OLINYANSKAYA, R. P.

Mbr., Laboratory of Gas Exchange, Dept. of General Physiology, Inst. of Exptl.

Med., Acad. Med. Sci., -1947-50.

"The Adaptability of Animal Organisms to Very Low Temperatures in the Environment,"

Iz. Ak. Nauk Ser. Biol., No. 2, 1947;

"The Cortex of the Brain and the Respiratory Exchange," (BK.), Moscow, 1950.

OL'NYANSKAYA, R.P.

Role of the thyroid gland in compound reflex regulation of gas exchange in connection with food intake. Opyt izuch.reg.fiziol. funk. no.3:23-29 '54. (MIRA 8:12)

1. Laboratoriya fiziologii ^{gas exchange} ~~gazooobmena~~ i ^{heat exchange} ~~teploobmena~~, Otdela obshchey fiziologii, Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR

(THYROID GLAND) (RESPIRATION) (REFLEXES)

KANFOR, I.S.; OL'NYANSKAYA, R.P.

Effect of stimulation of oral receptors on metabolism. Opyt izuch.
reg.fiziol.funk. no.3:44-52 '54. (MLRA 8:12)

1. Laboratoriya fiziologii gazoobmena i teploobmena Otdela obshchey
fiziologii Instituta eksperimental'noy meditsiny Akademii meditsin-
skikh nauk SSSR.

(METABOLISM) (MASTICATION) (BLOOD SUGAR)

OL'NYANSKAYA, R.P.

Role of interoceptive effects from the stomach in the regulation
of gas metabolism after food intake. Biul. eksp. biol. i med. 37 no.1:
3-6 Ja '54. (MIRA 7:3)

1. Iz laboratorii fiziologii ^{gas exchange} ^{heat exchange} gazoobmena i teploobmena (zavednyushchiy -
doktor biologicheskikh nauk R.P. Ol'nyanskaya) ot dela obshchey fiziolo-
gii (zavednyushchiy - professor A.V. Rikkl') Instituta eksperimental'-
noy meditsiny Akademii meditsinskikh nauk SSSR, Leningrad.
(Metabolism) (Nervous system)

USSR / Human and Animal Physiology. Thermoregulation. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41097.

Author : ~~Olnyanskaya, R. P.~~
Inst : Institute of Experimental Medicine, Academy of
Medical Sciences, USSR, Leningrad.
Title : Conditional Reflex Changes of Chemical Thermo-
regulation in Dogs in Connection with the Typical
Characteristics of Their Nervous System.

Orig Pub: Yezhegodnik. In-t eksperim. med. Akad. med. nauk
SSR, 1955, L., 1956, 83-86.

Abstract: No Abstract.

Card 1/1

30

OL'NYANSKAYA, R.P.. (Leningrad)

Role of the thyroid gland in conditioned and unconditioned reflex regulation of gas exchange. Probl.endok. i gorm. i no.6:3-9 N-D '55. (MIRA 12:8)

1. Iz laboratorii fiziologii gazoobmena i teploobmena otdela obshchey fiziologii Instituta eksperimental'noy meditsiny Akademii meditsinskikh nauk SSSR.

(BASAL METABOLISM, effect of drugs on, methylthiouracil, conditioned & unconditioned mechanisms in dogs)

(THIOURACIL, effects, methylthiouracil, eff. on basal metab., conditioned & unconditioned mechanisms in dogs)

(REFLEX, CONDITIONED, conditioned basal metab. responses to methylthiouracil in dogs)

USSR/Human and Animal Physiology. The Nervous System. v

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27439.

Author : R.P.Ol'nyanskaya and L.A. Isaakyan.

Inst :

Title : Reflex Changes in Gas Exchange Associated With
Typological Peculiarities of the Nervous System.

Orig Pub: Zh. vyssh. nervn. deyat-sti, 1956, 6, No 3, 408-414.

Abstract: The orientation motor response to various indifferent stimuli in dogs was accompanied by changes in gas exchange, the magnitude of which corresponded to the strength of the stimulus. The changes in gas exchange disappeared according to the degree of extinction of the motor reflex. In strong, stable dogs the alterations in gas exchange produced by the motor reflex were mild and rapidly returned to

Cardq : 1/3

*Lab. fiziol. gurgobomeras x teplobomera otdele
obshchey fiziol. IEM, AMN SSSR*

USSR/Human and Animal Physiology. The Nervous System. v

Abs Jour: Ref. Zhur-Biol., No 6, 1958, 27439.

exchange are an integral component of orientation reactions and reflect the dynamics of basic nervous processes in accordance with typological peculiarities.

Card : 3/3

OL'NIANSKAYA, R.P.

SOLOV'YEV, A.V., otvetstvennyy redaktor; AYRAPETIYANTS, F.Sh., redaktor;
BIRYUKOV, D.A., redaktor; VIADIMIROV, G.Ye., redaktor; KOLOSOV, N.G.,
redaktor; KHASUSKIY, V.K., redaktor; KURTSIN, I.T., redaktor;
MAYOROV, F.P., redaktor; OL'NIANSKAYA, R.P., redaktor; BIKKL', A.V.,
redaktor; CHERNIGOVSKIY, V.N., redaktor; FEDOROVA-GROT, A.K.,
redaktor; BARSUKOVA, Z.A., redaktor izdatel'stva; KRUGLIKOVA, N.A.,
tekhnicheskiy redaktor.

[Problems of the physiology of the central nervous system; a collection
celebrating the 70th birthday of Academician K.M.Bykov] Problemy
fiziologii tsentral'noi nervnoi sistemy; sbornik, posviasuchennyi
70-letiiu so dnia rozhdeniia akademika K.M.Bykova. Moskva, 1957.
632 p. (MLRA 10:10)

1. Akademiya nauk SSSR, Institut fiziologii.
(NEUROUS SYSTEM)

USSR/Human and Animal Physiology (Normal and Pathological) T
Nervous System. Higher Nervous Activity. Behavior.

Abs Jour : Ref Zhur Biol., No 6, 1959, 27035

Author : Ol'nyanskaya, R.P., Isaakyan, L.A.

Inst : -

Title : Reflex Changes of Gaseous Interchange and Heat Regulation
in Dogs in Connection with Typological Peculiarities of
the Nervous System.

Orig Pub : V sb.: Probl. fiziol. tsentr. nervn. sistemy. M.-L.,
AN SSSR, 1957, 412-419

Abstract : In dogs of a strongly balanced type, conditioned-reflex
changes of gaseous interchange (G) with temperature
reinforcement were produced and extinguished quickly,
orientation reactions to indifferent stimuli were accom-
panied by insignificant, quickly extinguished shifts of
G. the fluctuations of basal metabolism were weakly ex-
pressed. In animal of unbalanced type with prevalence

Card 1/2

~~OLINYANSKAYA, Regina Pavlovna; ISAAKYAN, Lillian Arshavirovna; VASILEVSKIY,~~
H.N., red.; HULEVA, M.S., tekhn.red.

[Methods for studying gas exchange in man and animals] Metody
issledovaniia gazovogo obmena u cheloveka i zhiivotnykh. Leningrad,
Gos.izd-vo med.lit-ry Medgiz, Leningr.otd-nis, 1959. 179 p.

(MIRA 12:10)

(RESPIRATION)

17(1)

AUTHORS:

Ol'nyanskaya, R. P., Fedorov, Vikt. K. SOV/20-124-1-68/69

TITLE:

Basal Metabolic Rate and Typological Characteristics of the Nervous System in Mice (Osnovnoy obmen i tipologicheskiye osobennosti nervnoy sistemy u myshey)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 237-240 (USSR)

ABSTRACT:

It is the aim of the present paper to detect which of the characteristic features mentioned in the title find particular expression in the reflex reactions of the respiratory change. The experiment was carried out with 29 male mice of the line C₅₇. To begin with, the conditionally reflex activity of the animals was investigated according to the "motor alimentary method" (dvigatel'no-pishchevaya metodika) (Refs 1, 2, 7). During 2 - 2.5 months the respiratory change was observed in climate chambers for one hour every day. During this procedure the animals were in quiescent state. As can be seen from table one all animals were divided into two groups, according to the results of respiratory change: I. Mice whose basal metabolic rate reached a certain level during the first 18.2 days

Card 1/3

Basal Metabolic Rate and Typological Characteristics of the Nervous System in Mice SOV/20-124-1-68/69

(the average duration until the basal metabolic rate level becomes stable). Low level and low variability coefficient were characteristic of this group. II. For this group of animals no stable level of the basal metabolic rate was achieved. From the results obtained can be concluded that the typological characteristics of the nervous system can be seen from the reactions of the respiratory change. Those characteristic features are particularly expressed by the time the basal metabolic rate requires to attain a stable level. The rate of development of the positive "motor alimentary reflex" and the time required by the basal metabolic rate to attain a stable level coincide most considerably. A less important correlative relation was observed between the rate of change of the conditional reflexes and the mentioned adjustment of the level. The final solution of the problem is left to further research. The results obtained are a first attempt towards revealing the

Card 2/3

Basal Metabolic Rate and Typological Characteristics of the Nervous System in Mice SOV/20-124-1-68/69

relation between the individual properties of the nervous system and the processes of respiratory change. There are 1 figure, 2 tables, and 7 Soviet references.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR
(Institute of Physiology imeni I. P. Pavlov, Academy of Sciences, USSR)

PRESENTED: September 8, 1958, by K. M. Bykov, Academician

SUBMITTED: August 20, 1958

Card 3/3

OL'NYANSKAYA, R.P., doktor biologicheskikh nauk, prof.

"Physiology and pathophysiology of mastication" by I.S. Rubinov.

Reviewed by R.P. Ol'nianskaia. Stomatologiya 40 no.4:100-101

Jl-Ag '61.

(MASTICATION)

(RUBINOV, I.S.)

(MIRA 14:11)

25316

S/020/61/138/005/025/025
B103/B220

27.1120

AUTHORS: Ol'nyanskaya, R. P. and Trubitsyna, G. A.

TITLE: Conditioned reflex variations of the respiratory change, of the bioelectric activity of the cerebrum, and of the skeleton muscles

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 5, 1961, 1245-1247

TEXT: A study of the total gas interchange permits neither to establish the mechanisms effecting conditioned reflex processes nor to single out the organs and systems involved. In order to clarify this important problem, the authors repeated the tests made in their first study concerning the conditional reflex variations of the gas interchange in muscular activity (R. P. Ol'nyanskaya, Ref. 3: Fiziol. zhurn. SSSR, 15, No. 4, 314 (1932)); however, they recorded simultaneously the electric phenomena in the skeleton muscles (1) and in the cerebrum (2). Thus, it was possible to disclose the manifestation of both the general (2) and the local (1) neural excitation due to the development of conditioned reflexes affecting the gas interchange under muscular stress. 14 persons aged

Card 1/4

25316

S/020/61/138/005/025/025
B103/B220

Conditioned reflex variations of the...

between 18 and 30 years were used in the experiments and occupied a horizontal position in a screened chamber. The gas interchange was determined according to Zurtz-Haldane, using the automatic electric device of Belau [Abstracter's note: device not stated]. The biocurrents of muscles (*m. digitorum communis* and *m. biceps*) and cerebrum, and also the pulse were registered by an oscillographic multichannel apparatus. The latter was connected to a band-pass filter which served to eliminate the α -rhythm from the electroencephalogram. Electronic integrators computed the total activity within a defined period. The electroencephalogram was recorded by means of a unipolar shunt wire. Muscular exertion lasting for 2, 3, or 4 min served as unconditioned impulse: squeezing of a rubber bulb, lifting of weights and dumb-bells. The conditioned impulse consisted in a) a voice signal for impulse emission, and b) in the clicking of a metronome having a frequency of 100 and 116 per min. All characteristics mentioned were determined and recorded 1) with the test person being at rest, 2) during the isolated action of the conditioned impulse, 3) during muscular stress, and 4) during the period of restitution after completion of labor. The results showed that the conditioned reflex increase of the respiratory change occurring in the initial period

Card 2/4

25316

S/020/61/138/005/025/025
B103/B220

Conditioned reflex variations of the...

of the development of conditioned reflexes due to muscular exertion was sometimes accompanied by a suppression of the α -rhythm in the electroencephalogram. With progressive fixation of conditioned interchange reflexes also conditioned reflex variations of the working currents in the muscles become apparent. The data obtained by the authors show that in the development of the motor conditioned reflex process first of all the conditioned reflex variations of intimate processes occur. Only then the variations of the bioelectric activity of the skeleton muscles become apparent. In other words, the trophic function of the central apparatus is changed first of all. This is followed by the specific reaction of the muscles. Thus, similar ideas of K. M. Bykov (Ref. 1: DAN, 99, No. 2 (1954)) are proved. The authors believe that the conditioned reflex increase of the respiratory change connected with the muscular activity depends on the increase of oxidative processes in the cerebrum. Moreover, this increase of metabolism may be influenced by the general metabolic reaction in many other tissues and organs. With the fixation of the conditioned reflexes, the excitation concentrates in the innervation apparatus of the working muscles and, at the same time, the electric activity increases in the resting muscles. The reaction

Card 3/4

25316

S/020/61/138/005/025/025
B103/B220

Conditioned reflex variations of the...

suppressing the α -rhythm, however, vanishes on fixation of the conditioned reflexes, and the extent of variation of the conditioned reflex of the respiratory change is somewhat reduced. In the opinion of the authors, it is conceivable that, in this case, the expenditure of energy of the cerebral cortex approaches its original level, whilst the total metabolism is effected by the skeleton muscles. Studies of M. I. Vinogradov et al. are mentioned. There are 2 figures and 9 Soviet-bloc references.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR
(Institute of Physiology imeni I. P. Pavlov of the Academy
of Sciences USSR)

PRESENTED: January 30, 1961, by V. N. Chernigovskiy, Academician

SUBMITTED: January 20, 1961

Card 4/4

OL'NYANSKAYA R.D.
AID Nr. 997-9 25 June

TRIAL USE OF ELECTRONIC EQUIPMENT WITH PROGRAMMED CONTROL
IN A PHYSIOLOGICAL EXPERIMENT (USSR)

Yevdokimov, S. A., R. P. Ol'nyanskaya, V. V. Semenov, V. A. Tarasov,
and G. A. Trubitsyna. IN: Konferentsiya po metodam fiziologicheskikh
issledovaniy cheloveka. Materialy. (Materials of the conference on methods
of investigating human physiology). Moskva, 1962. 72-73.
S/926/62/000/000/002/004

A programmed control device which assures the maintenance of strictly con-
stant conditions during the simultaneous recording of a number of physiologi-
cal processes (e.g., gas metabolism, bioelectric activity of brain and mus-
cles, pulse and respirations rate) has been designed by a research team
from the Institute of Physiology (Academy of Sciences of the USSR) and the
Institute of Electromechanics (Academy of Sciences of the USSR). Institute of the State Committee on Auto-

grammed control has several advantages: it allows

Card 1/2

AID Nr. 997-9 25 June

TRIAL USE OF ELECTRONIC EQUIPMENT (Cont'd)

8/926/62/000/000/002/004

conduct of experiments, significantly simplifies experimental procedure, and reduces the chance of human error introduced by the investigator. The device consists of a central panel into which the inputs and outputs of all the instruments and the circuit of the oscillograph vibrators are connected; a commutator for switching the integrator outputs to the various groups of electromechanical counters for stopping and starting the

in humans

conditions for studying work and sport activity

[DMP]

Card 2/2

OLNYANSKAYA, R.P.; TRUBITSYNA, G.A.; FEDOROV, Vikt.K.

Study of typological properties of the nervous system and
gas exchange in rodents. Trudy Inst. fiziol. 10:255-264 '62
(MIRA 17:3)

1. Laboratoriya nevrofiziologicheskikh problem (zav. - K.M.
Bykov [deceased]) i gruppy po izucheniyu genetiki vysshey
nervnoy deyatel'nosti: gryzunov (zav. - Vikt.K.Fedorov)
Instituta fiziologii imeni Pavlova AN SSSR.

41339

S/020/62/146/003/018/019
B144, B186

27 1120

AUTHORS:

Isaakyan, L. A., Ol'nyanskaya, R. P., Trubitsyna, G. A.

TITLE:

Temperature effects on gaseous metabolism and bioelectric activity of brain and muscles in man during muscular work

PERIODICAL: Akademiya nauk USSR. Doklady, v. 146, no. 3, 1962, 728-730

TEXT: The role of muscle activity and of central and peripheral effects in thermoregulation was studied in 5 healthy 20-25 - year-old individuals. Gaseous metabolism was determined with a Böhlau apparatus. Electroencephalograms and electromyograms of the arm flexor were taken after: 1) muscular work; 2) application of hot-water bags (a) and icebags (b) to the hand without muscular work; 3) muscular work with previous heating (a) and cooling (b). 1) 25 - 52% increase of gaseous metabolism; α -rhythm suppressed; action current increased. 2a) (in the same order) No change or slight reduction; suppression in the 1st minute; no change. 2b) 15 - 20% reduction, restoration after 1 min; similar to 1); but less marked; not always increase. 3a) Sometimes slight increase; insignificant suppression in the 1st minute; 15 - 20% increase. 3b) No

Card 1/3

S/020/62/146/003/018/019
B144/B186

Temperature effects on gaseous ...

increase, less, 14 - 43% reduction. 1, 2a, and 2b are compared to the state of muscles at rest under normal conditions; 3a and 3b are compared to 1. Conclusions: The accumulation of the applied heat and the heat formed by muscular work impedes the heat exchange and increases the energy consumption and the action currents. The reverse effects result from cooling. Muscle activity reduces the susceptibility of the body to the temperature applied. Temperature affects the excitability of the brain centers during muscular work and consequently also that of the muscle. The reaction in muscular activity at different temperatures is controlled by cortical formations, thermoregulatory hypothalamus centers and motoric centers in brain and spinal cord. There is 1 figure. The most important English-language reference is: T. R. A. Davis, J. Appl. Physiol., 16, 6, 1011 (1961). ✓

ASSOCIATION: Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR
(Institute of Physiology imeni I. P. Pavlov of the Academy
of Sciences USSR)

PRESENTED: April 5, 1962, by V. N. Chernigovskiy, Academician

Card 2/3

OL'NYANSKAYA, R.P.; DAVYDOV, A.F.; ROMANOVSKAYA, G.D.

Materials on the physiology of acclimatization of sheep in the mountains of the Northern Caucasus. Opyt izuch. reg. fiziol. funk. 6:78-84 '63 (MIRA 17:3)

1. Gruppy fiziologii gazoobmena i teploobmena i laboratoriya ekologicheskoy fiziologii (zav. - prof. A.D. Slonim) Instituta fiziologii imeni Pavlova AN SSSR.

ISAAKYAN, L.A.; OL'NYANSKAYA, E.P.; TRUBITSYNA, G.A.

Respiratory gas exchange and bioelectric activity of human muscles during a combined effect of temperature and muscular activity on the organism. Opyt izuch. reg. fiziol. funk.6: 171-179 '63 (MIRA 17:3)

1. Gruppya fiziologii gasoobmena i teploobmena (rukovoditel' - prof. E.P.Ol'nyanskaya) Institut fiziologii imeni Pavlova AN SSSR.

ISAAKYAN, Lilian Arshavirovna; OJNYAN K.Y., R.P., otv. red.

[Electrochemical methods of gas analysis in physiology]
Elektrokhimicheskie metody gazovogo analiza v fiziologii.
Moskva, Nauka, 1964. 73 p. (MIA 17.8)

~~OLYANSKAYA~~, Regina Pavlovna; CHIRNIGOVSKIY, V.N., akademik, otv.
red.; VASIL'YEVA, Z.A., red.izd-va; KONDRAT'YEVA, M.N.,
tekh. red.

[Essays on metabolism regulation] Ocherki po reguliatsii ob-
mena veshchestv. Moskva, Izd-vo "Nauka," 1964. 232 p.
(MIRA 17:4)

*

ISAAKYAN, L.A.; OL'NYANSKAYA, R.P.; TRUBITSYNA, G.A.

Physiological characteristics of the stimulation distribution in a muscular system following conditioned reflex changes in respiratory gas exchange. Dokl. AN SSSR 162 no.3:716-718 My '65. (MIRA 18:5)

1. Institut fiziologii im. I.P.Pavlova AN SSSR. Submitted July 7, 1964.

MANVELYAN, M.G.; KHANAMIRYAN, J.A.; TALIASHVILI, B.A.; NIKOGOSYAN, B.V.
OLOBIKYAN, L.G.; STEPANYAN, M.G.

Desilicification of sodium-potassium aluminate solutions.
Izv.AN Arm.SSR.Khim.nauki 17 no. 3:283-289 '64.
(MIRA 17:7)

1. Institut khimii Gosudarstvennogo komiteta tsvetnykh i
chernykh metallov pri Gosplane SSSR.

OLOGU, Gh., ing.; MERA, Al.

How the Balda Cooperative of Agricultural Production obtains large crops of sugar beets every year. Ind alim 16 no.3:150-153 Mr '65.

1. Balda Cooperative of Agricultural Production (for Ologu).
2. Head of the Agricultural Service, Ludus Sugar Plant (for Mera).

S/169/62/000/006/033/093
D228/D304

AUTHOR: Olofinskaya, V. N.

TITLE: Application of electric prospecting methods when studying a section in the horizontal direction

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 30, abstract 6A227 (Byul. nauchno-tekhn. inform. M-vo geol. i okhrany nedr SSSR, no. 1 (29), 1961, 54-59)

TEXT: It is proposed that the graphs of tri-electrode sounding should be used in order to define more precisely the position of a vertical bed's contacts if the graphs of electric profiling are strongly distorted. The theoretical curves of sounding over a vertical bed of high and low resistance are cited in order to illustrate this possibility. These curves were calculated by measuring and feeder electrodes for the points of intersection of the contacts and the middle of the bed. By means of comparing field and theoretical curves it is shown in practical examples that in the case of a thick bed the point of auxiliary tri-electrode sounding

Card 1/2

OLOFINSKAYA, Yu. G.

OLOFINSKAYA, Yu. G.: "The dynamics of the morphological blood picture of newborn children in some diseases". Moscow, 1955. Second Moscow State Medical Inst imeni I. V. Stalin. (Dissertations for the degree of Candidate of Medical Science.)

SO: Knizhnaya Letopis' No. 50 10 December 1955. Moscow.

LARINA, N.I.; OLOFINSKAYA, Yu.G., kand.med.nauk

Therapy in erythroblastosis fetalis [with summary in English].
Akush. i gin. 35 no.1:18-2; Ja-F '59. (MIRA 12:2)

1. Iz Instituta akusherstva i ginekologii (dir. I.G. Stepanov)
Ministerstva zdravookhraneniya RSFSR.
(ERYTHROBLASTOSIS, FETAL, therapy
(Rus))

OLOFINSKAYA, Yu, G.

Determination of the amount of hemoglobin and erythrocytes in the blood by means of the photoelectric erythrohemometer, Lab. delo 6 no.4:7-9 JI-Ag '60. (MIRA 13:12)

1. Klinicheskaya laboratoriy: Instituta akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR (dir. - dotsent L.G.Stepanov), Moskva.

(HEMOGLOBIN)

(ERYTHROCYTES)

(MEDICAL INSTRUMENTS AND APPARATUS)

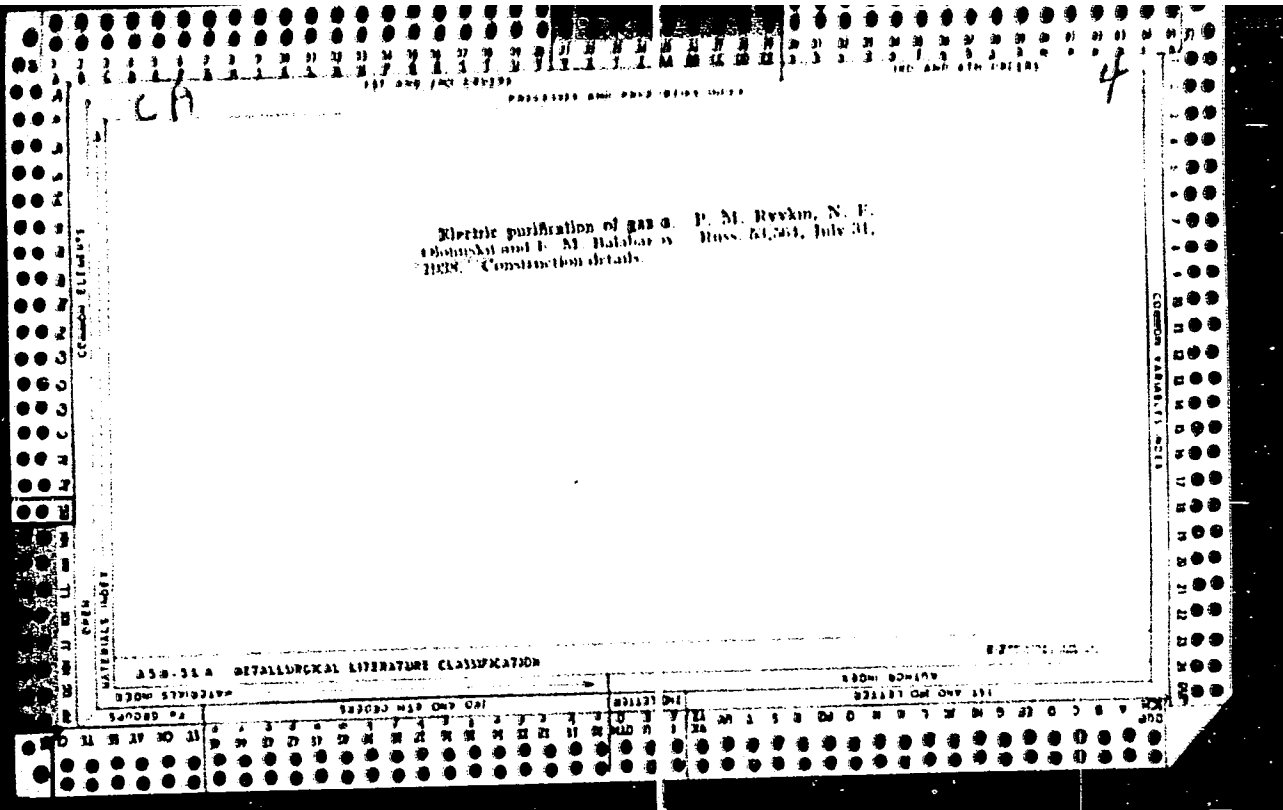
OLOFINSKIY, F.S., uchitel'.

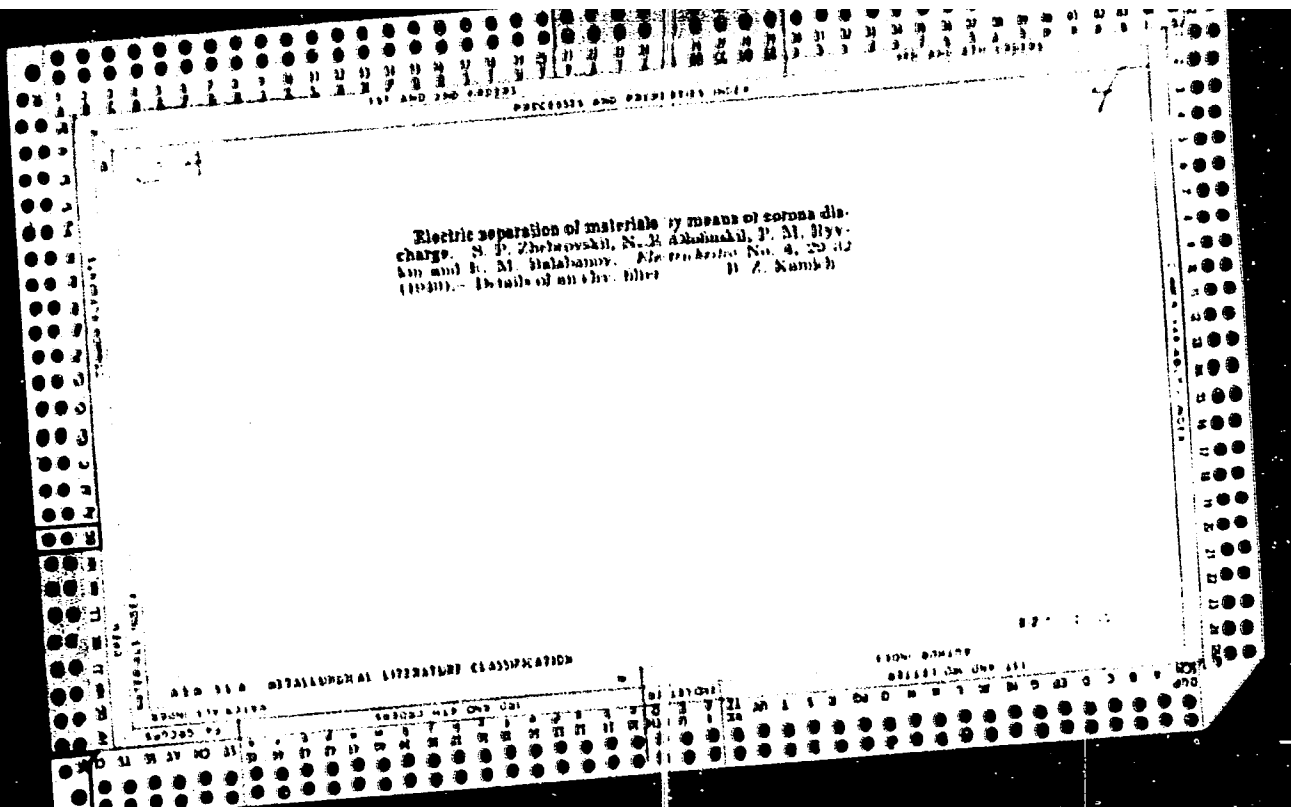
Summer tasks in botany for students. Est. v shkole no.1:59-64 Ja-F '54.
(MLRA 6:12)

1. Asinovskaya srednyaya shkola Tomskoy oblast.
(Botany--Study and teaching)

OLOFINSKIY, L.N., inzh.

Geophysical methods of prospecting for the purpose of erecting
structures for water management. Trudy Giprovdkhoza no.25:
3-23 '63. (MIRA 18:6)





OLOPINSKIY, N.F., kandidat tekhnicheskikh nauk.

Electric separation of scorched foundry sand. Vest.mash.27 no.12:
48-57 D 147. (MIRA 9:4)
(Sand, Foundry) (Foundry machinery and supplies)

OLOFINSKIY, N.F.; RYVKIN, P.M.; BALABANOV, Ye.M.; PROTASEVICH, N.S.

Electrostatic separator. Patent U.S.S.R. 77,957 , Dec. 31, 1949.
(CA 47 no.19:9830 '53)

1. ISAKHANYAN, N.T.; KLOTILIN, YE. I.; KUMANIN, I. E.; OLCFINSKIY, R.F.;
PROSYANKI, G.V.; PANTALOV, L.I.
2. USSR (600)
4. Sand, Foundry
7. Repeated use of core mixtures., Lit.proiz, No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress. February 1953. Unclassified.

OLOFINSKIY, N.F.; TRUSHLEVICH, V.I., doktor, professor, rezensent; ZHEBROVSKIY,
S.P., doktor, professor, rezensent; MAKARENKO, N.P., redaktor; PAR-
TSYVSKIY, V.N., redaktor; MIKHAYLOVA, V.V., tekhnicheskij redaktor

[Electrical methods of ore concentration] Elektricheskie metody
obogoshchenia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoj
i tsvetnoj metallurgii, 1953. 288 p. (MIRA 7:9)
(Ore dressing)

DERKACH, Viktor Grigor'yevich; KOPYCHEV, Petr Alekseyevich; OLOPINSKIY,
N.F., kandidat tekhnicheskikh nauk, redsuzent; RYVKIN, P.M.,
redaktor; YEZDOKOVA, M.L., redaktor izdatel'stva; EYENSON, I.M.,
tekhnicheskiy redaktor

[Special methods of ore dressing] Special'nye metody orogashchenia
poleznykh iskopaemykh. Moskva, Obshch. nauchno-tekhn. izd-vo lit-ry
po cherno i tsvetnoi metallurgii, 1956. 344 p. (MIRA 10:1)
(Ore dressing)

Olofinskiy, Nikolay Filippovich

OLOFINSKIY, Nikolay Filippovich; RYKOV, N.A., o vetstvennyy red.; ALADOVA,
Ye.I., tekhn.red.

[Electric separation of coal fines and certain minerals] Elektro-
separatsiya ugol'noi melochi i nekotorykh mineralov. Moskva,
Ugletekhnizdat, 1957. 92 p. (MIRA 11:2)
(Coal preparation)

OLOFINSKIY, N. F. and PLAKSIN, I. N.

"New Trends in Research on Separation of Small Coal in an electrical Field,"
paper submitted for Third Intl. Coal Production Congress, Leige, Belgium, 23-28
June 1958.

OLOFINSKIY, N.F., kand.tekhn,nauk

New trends in the study of the processes of separating fine
sizes of ore and coal in electric and magnetic fields. Nauch.
soob.Inst.gor.dela 6:46-62 '60. (MIRA 15:1)
(Ore dressing)

OLOFINSKIY, N.F., kand.tekhn.nauk; NORKIN, V.I., kand.tekhn.nauk

New development in the use of magnetic and electric separation
in dressing low-grade manganese concentrates and ores. Nauch.
soob.Inst.gor.dela 6:85-98 '60. (MIRA 15:1)
(Manganese—Metallurgy)

OLOFINSKIY, N. F., PLAKSIN, Igor' N.

"Electrostatic cleaning."

To be submitted for the Gordon Research Conference, Chemistry of Coal, New Hampton, N.H.
13-16 June 1961.

Institute of Mining of Academy of Sciences USSR.

PLAKSIN, I. N. and OLOFINSKIY, N. F.

"Electric Preparation of Materials with Fibrous Texture
(Example of Raw Chrysotile-Asbestos Ore)"

Report presented at the Colloquy on Preparation of Anorganic Non-Metallic
Minerals, Freiberg, GDR, 29-30 Aug 61

SUSHCHINSKIY, M.M., doktor fiz.-matem.nauk; OBUHOV, A.M.;
GILYAROV, M.S., doktor biolog.nauk; TAFT, V.A., doktor tekhn.nauk;
GLEMBOTSKIY, V.G., doktor tekhn.nauk; OLUFINSKIY, N.F., kand.
tekhn.nauk

Scientific contacts with foreign countries. Vest. AN SSSR 31
no.12:101-105 D '61. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Obuhov).
(Science-Congress: b)

OLOFINSKIY, Nikolay Filippovich; NORKIN, V.V., otv. red.; KUNIK, V.P.,
red. izd-va; LOMILINA, L.N., tekhn. red.

[Electric ore dressing methods]Elektricheskie metody oboga-
shchenia. Izd.2., perer. i dop. Moskva, Gosgortekhnizdat,
1962. 571 p. (MIRA 15:2)
(Ore dressing--Technological innovations)

OLOFINSKIY, N.F., kand. tekhn. nauk

Electric power supply of electric separators. Nauch. soob. IGD
16:26-36 '62. (MIRA 16:8)
(Separators (Machines)) (Electric power distribution)

PLAKSIN, I.N.; OLOFINSKIY, N.F., kand.tekhn.nauk; NOVIKOVA, V.A., inzh.

Triboelectric separation of asbestos materials. Nauch. soob. IGD
19:3-12 '63. (MIRA 17:2)

PLAKSIN, I.N.; KARMAZIN, V.I.; OLOFINSKIY, N.F.; NORKIN, V.V.;
KARAMZIN, V.V.; MAKARENKO, M.G., red.

[New trends in the concentration of disseminated iron ores]
Novye napravleniia glubokogo obogashcheniia tonkovkraplen-
nykh zheleznykh rud. Moskva, Izd-vo "Nauka," 1964. 202 p.
(MIRA 17:4)

OLOFSSON, Bertil

Mechanical properties of textiles. Magy textil 14 no.10:446-455 0 '62.

1. Sved Textilkutato Intezet (TEFO), Goteborg.

COUNTRY : USSR
CATEGORY : Microbiology
ABS. JOUR. : Ref Zhur-Biologiya, No. 4, 1959, No. 14946
AUTHOR : Kuramshina, M.G., Olomskaya, V.V., Blonskaya, L.I.
INST. : Inst. of Microbiology and Virology, Kazakh SSR
TITLE : Streptomycin Resistance of Tubercle Mycobacteria with Intermittent Method of Treatment.
REG. PUB. : Tr. In-ta mikrobiol. i virusol. AN KazSSR, 1958, 2, 196-206
ABSTRACT : Patients (53) received 1g of streptomycin 2 times a week (intermittent method of therapy) on a background of IASA or tibon. For the entire course of treatment each patient received 16 - 24 g of streptomycin. A gradually increasing resistance of the isolated tubercle bacilli (TB) to streptomycin was noted during the treatment process. With effective treatment the TB isolated from patients were morphologically changed. The
CARD: 1/2

OLOMSKAYA, V.V.

Course of the tuberculous process in a patient with acromegalic
gigantism. Probl. tub. 38 no. 5:99-100 '60. (MIRA 14:1)
(DEFORMITIES) (TUBERCULOSIS)

OLOMSKAYA, V.V.

Use of thibone in the treatment of pulmonary tuberculosis. Zdrav.
Kazakh. 21 no.1:48-51 '61. (MIRA 14:3)

1. Iz Kazakhakogo instituta tuberkuleza (direktor - G.M.Varshavskiy).
(TUBERCULOSIS) (ACETANILIDE)

OLAMUTSKAYA M.B.

Colorimetric determination of arsenic in iron ores and
 steel. F. G. Zharovskii and M. B. Olamutskaya
Khim. Zhur. 19, p. 19 (1937) *Chem. Zhur.* 13
 No. 27653. — Dissolve 0.2 g. of ore (contg. As >
 heating with aqua regia. To the soln. add 30-40 ml. hot
 H₂O, filter off SiO₂, and wash with hot 2% HCl
 filtrate, add 0.5 g. of Na₂C₂H₃O₄ (or H₂C₂H₃O₄), 5
 Na₂HPO₄ soln., and 15 ml. of Mg mixt. and NH₄
 conc. Filter off the ppt., wash with a mixt. of 2%
 and 1% Na₂C₂H₃O₄, dissolve in 2 ml. of hot 5N HCl
 dnc. with the same to make 10 ml., add 2 ml. of
 conc. HCl + passos HCl to soln. + a piece of
 (Sn), boil 2-3 min., cool, and transfer the colloidal
 to a cylinder for nephelometry. To prep. standards
 in 100-ml. beakers 1.0, 2.0, 2.5, 2.0, 1.0, and 0.5
 soln. (0.1 mg. As³⁺/ml.) and HCl (1:1) to make

ores and
 Ureine
 (m. 1054)
 201%) by
 ml. hot
 To the
 ml. of 1%
 NH₄OH
 wash the
 E. CuSO₄
 100 ml.
 metallic
 As soln.
 in place
 of As³⁺
 2-10 ml.

ROYTMAN, M.S.; GOFMAN, S.A.; OLOMUTSKIY, L.P.; KARMADONOV, A.N.

Zero stability of synchronous detectors equipped with
semiconductor diodes and transistors. Izv. tekhn. no.9:27-
31 S '61. (MIRA 14:8)

(Electric measurements)
(Transistors)
(Diodes)

OLONICHEV, P. M.

USSR/Mathematics - Projective Theory 11 Sep 51

"General-Affine and Central-Projective Theory of Hyperzones," P. M. Olonichev, Saratov State U imeni N. G. Chernyshevskiy

"Dok Ak Nauk SSSR" Vol LXXX, No 2, pp 165-163

Define a central-affine space E_n as a linear space; then the linear space \bar{E}_n which is conjugate to E_n will be a space of hyperzones (E_n a linear space is considered as supplemented by infinitely removed elements). Obtains the results of V. V. Vagner, Cf. A. P. Norden, "Spaces of Affine Connection," 1950. Submitted by Acad I. G. Petrovskiy 27 Jun 51.

P21T69

Olonichev, P.M.

44-1-36

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 4 (USSR)
AUTHOR: Olonichev, P.M.
TITLE: Kazan' Geometrician Fedor Matveyevich Suvorov (Kazanskiy geometr Fedor Matveyevich Suvorov)
PERIODICAL: V sb.: Istoriko-Matem. issledovaniya, Ir 9, Moscow, Gostekhizdat, 1956, pp 271-316
ABSTRACT: A detailed account of the life and the pedagogical activities of F.M. Suvorov (1845-1911) who played a significant role in the propagation of Lobachevskiy's geometric ideas and in the development of the theory of Riemannian spaces. An analysis of his most important works is given. In his master's dissertation, "On the Characteristics of Systems of Three Dimensions" (1871), which appeared soon after the publication of Riemann's well-known paper (1868), we have the first study in Russia, and one of the first in world literature, on the theory of curvature of Riemannian surfaces. F.M. Suvorov found a complete system of scalar differential invariants of the second order of a three-dimensional Riemannian surface and obtained their geometric interpretation by means of examining V_3 contained in E_4 . The author translates Suvorov's results into the language of contemporary differential geometry and shows that in them is contained a series of values and relations which are usually

Card 1/2

Kazan' Geometrician Fedor Matveyevich Suvorov (Cont.)

44-1-36

attributed to Ricci, Levi-Civita, and Bianchi, who got them considerably later. Suvorov's doctoral dissertation was devoted to the theory of the imaginary elements in geometry.

B. L. Iaptrv

Card 2/2

OLONOVA, E. M.

Dissertation defended for the degree of Candidate of Philological Sciences
at the Institute of Slavic Studies

"Problem of Realism in the Slovak Novel of the End of the 1940's to the
Beginning of the 1950's."

Vestnik Akad. Nauk, No 4, 1963, pp 119-145

OLONOVSKIY, Ye. A.

TERENT'YEV, F.A.; SERGEYEVA, T.Ya.; MOROZOV, I.S.; ~~OLONOVSKIY, Ye. A.~~

Impracticality of vaccinating mature cattle against brucellosis.
Veterinariia 34 no.12:60-64 D '57. (MIRA 11:1)

1. Nauchno-proizvodstvennaya laboratoriya Ministerstva sel'skogo
khozyaystva RSFSR.

(Brucellosis in cattle)

BASHKATOV, D.N.; VASIL'YEV, A.V.; OLONOVSKIY, Yu.A.

Investigating the technology of vibration-percussive drilling.
Razved. i okh. nedr. 30 no.5:22-25 My '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii
i inzhenernoy geologii.

OLONTSEVA, R.Ya.; NEFELOVA, N.V.

Effect of liner rings on the productivity of gas pipelines. Trudy
VNII no.5:205-207 '54. (MIRA 9:1)

(Gas, Natural--Pipelines)

OLOS, G.

Detailed study of hydraulic conditions in the vicinity of the walls
of a well. Vodoprivreda Jug 2 no.7/8:250-251 '59. (EEAI 10:1)
(Hydraulics) (Wells)

OIGSU, P., ing.; LAZAR, A., ing.

262 m. drifting per month in the mining exploitation of
Rosia Montana. Rev min 14 no.10:429-431 0 '63.

ARSIN, G., ing.; OLOSU, P., ing. sef

Labor productivity in the mining industry. Probleme econ 17 no.2:153
F 64.

1. Director, Trustul aurului Brad (for Arsin). 2. Trustul aurului Brad
(for Olosu).

ОЛОСУФ'ЯВ, Н.С

PAYLOVSKIY, Ye.N. akademik; OLOSUF'YEV, N.G.; ANAN' IN, V.V.

A trip to the Czechoslovakian Republic. Zool.zhmr. 4 no.2:464-
468 Mr-Apr '55. (MIRA 8:6)
(Czechoslovakia--Communicable diseases--Congresses)

HORVATH, A.; PAPP, C.; OLOSZ, E.; HORGA, M.; MAKSAI, I.; HUSZAR, I.

Statistical findings on excess weight. Correlation: between
body weight and frequency of arterial hypertension. Stud.
cercet. endocr. 16 no.3:285-291 '65.

OLOVENIKOV, G.B.

Mechanization of the labor-consuming work of tree tapping.

Gidroliz. i lesokhim. prom. 17 no.3:10-11 '64.

(MIRA 17:9)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimiicheskiy institut.

OLOVENIKOV, G.B.

Enveloping tree-tapping hack No.6. Gidroliz.i lesokhin.prom. 12 no.2:
23-24 '59. (MIRA 12:3)

1. Beloyarskiy instrumental'nyy zavod.
(Tree tapping)

OLOVENIKOV, G.B.

New tools for cutting streaks in trees. *Gidroliz.i lenokhin.*
prom. 12 no.3:21-22 '59. (MIRA 12:6)

1. Beloyarskiy instrumental'nyy zavod.
(Tree tapping)

OLOVENIKOV, G.B.

Tree tapping with one-sided cutting faces. Gidroliz i lesokhin.
prom. 12 no. 4:24-25 '59. (MIRA 1:8)
(Tree tapping)

OLOVENIKOV, G.B.

Newly designed hacks. Gidroliz i lesokhim.prom. 1; no.2:22-25
'60. (MIRA 13:6)

(Tree tapping)